SUBJECT INDEX TO VOLUME XXXI

(abs) = abstract (E) = editorial

Abdomen, study of hydro-aerial images of (abs), 415
Abrodil, used in pyelography (abs), 122; (abs), 123; (abs), 124
Abscess, bone, unusual migration of, originating in vertebra (abs), 138
lung, putrid, bronchopulmonary segment with special reference to, 328
perigastric, complicating peptic ulcer, pathogenesis of (abs), 420
subdiaphragmatic, 177
Acetabulum, intrapelvic protrusion of, 346
Acid-base balance in genital carcinoma in women (abs), 282
Actinomycosis, roentgen therapy of, 823
Addison's disease, calcification of suprarenal glands in (E), 93
roentgen examination, 394; (abs), 420
Adenomas, basophil, of pituitary gland and their clinical manifestations (abs), 408
Adrenalin, liver retraction test with (abs), 417
Ainhum, roentgen findings, 349
Alveoli, inverse ratio in roentgen visualization of, after injection of contrast media, 323
American Board of Radiology, 258
American College of Radiology, relation of, to future of radiology, 164
American Radium Society, program of Nineteenth Annual Meeting, 684
American Roentgen Ray Society, annual meeting, 845
reduced railroad fares to, 845
scientific exhibit, 395
Anemia, erythroblastic (abs), 571
racial and familial, of children (abs), 571
Angiomas, treatment by radium therapy (abs), 573
Annals of Surgery celebrates Golden Jubilee, 262
"Annular shadows," significance of, in roentgenograms of chest (abs), 410
Antiperistalsis of colon (abs), 118
Aorta, coarctation of (abs), 558
mesaortic descending, abnormal situation (abs), 698
right arching of (abs), 414
Apophyses, persistent, of vertebral column (abs), 702
Apparatus, advances in x-ray engineering with reference to high potentials (abs), 576
device for taking pulmonary roentgenograms under control of heart beat (abs), 143
focal spot camera, 399
for measuring density of roentgen films, 550
frame for holding infants upright during roentgenography, 396
improved device for synchronizing roentgenographic exposure with patient's pulse, 104
"light-pencil" for marking on roentgenographic and photographic emulsions, 554
new aiming instrument to make focusing easier in gynecological deep irradiation (abs), 719
new roentgenoscopic and roentgenographic grid (abs), 287
overhead aerial high tension system, 690
roentgen tube with internal radiation protection for 400 kv. operation voltage (abs), 577
simple radium detector, 689
valve tube for 400 kv. tension (abs), 577
wet-film viewing box, 398
Appendicitis, chronic, results and limitations of roentgen diagnosis (abs), 564
chronic, roentgen examination of inferior quadrant (abs), 564
chronic, solution of roentgen diagnostic problem in, 792
Appendix, pathological, 340
roentgen study of active movements of (abs), 118
roentgen visualization of (abs), 573
Arteritis, treatment by radiotherapy (abs), 431
obliterans, treated by roentgen therapy of suprarenal region (abs), 576
Arthritis, certain cases of, associated with parathyroidism (abs), 708
costovertebral (abs), 136
relation of intestinal tract and diet to treatment of (abs), 137
use of parathyroidectomy for (abs), 708
Ascaris, roentgen study of lungs of children with (abs), 412
Asthma, roentgen therapy of pancreas in treatment of (abs), 576
Astragalus, dislocation of (abs), 709

Backache, lumbosacral, and sciatic pain, oblique view for demonstration of articular facets in, 173
Basedow's disease: See Goiter, exophthalmic
Basophilism, pituitary (abs), 408
Bilharziasis, urinary, roentgen manifestations, and calculous formations in Egypt, and intravenous pyelography, 208
Bladder, closing mechanism of (abs), 120
diverticulum of (abs), 122
"Bleeding nipple," new method of treatment by radium implantation, 819
Blood, alterations in pH of, in cancer following roentgen and gamma irradiation, 532
changes in picture of, after deep roentgen irradiation, and their significance in prognosis (abs), 579

SUBJECT INDEX TO VOLUME XXXI

(abs) = abstract (E) = editorial

Abdomen, study of hydro-aerial images of (abs), 415
Abrodil, used in pyelography (abs), 122; (abs), 123; (abs), 124
Abscess, bone, unusual migration of, originating in vertebra (abs), 138
lung, putrid, bronchopulmonary segment with special reference to, 328
perigastric, complicating peptic ulcer, pathogenesis of (abs), 420
subdiaphragmatic, 177
Acetabulum, intrapelvic protrusion of, 346
Acid-base balance in genital carcinoma in women (abs), 282
Actinomycosis, roentgen therapy of, 823
Addison's disease, calcification of suprarenal glands in (E), 93
roentgen examination, 394; (abs), 420
Adenomas, basophil, of pituitary gland and their clinical manifestations (abs), 408
Adrenalin, liver retraction test with (abs), 417
Ainhum, roentgen findings, 349
Alveoli, inverse ratio in roentgen visualization of, after injection of contrast media, 323
American Board of Radiology, 258
American College of Radiology, relation of, to future of radiology, 164
American Radium Society, program of Nineteenth Annual Meeting, 684
American Roentgen Ray Society, annual meeting, 845
reduced railroad fares to, 845
scientific exhibit, 395
Anemia, erythroblastic (abs), 571
racial and familial, of children (abs), 571
Angiomas, treatment by radium therapy (abs), 573
Annals of Surgery celebrates Golden Jubilee, 262
"Annular shadows," significance of, in roentgenograms of chest (abs), 410
Antiperistalsis of colon (abs), 118
Aorta, coarctation of (abs), 558
mesaortic descending, abnormal situation (abs), 698
right arching of (abs), 414
Apophyses, persistent, of vertebral column (abs), 702
Apparatus, advances in x-ray engineering with reference to high potentials (abs), 576
device for taking pulmonary roentgenograms under control of heart beat (abs), 143
focal spot camera, 399
for measuring density of roentgen films, 550
frame for holding infants upright during roentgenography, 396
improved device for synchronizing roentgenographic exposure with patient's pulse, 104
"light-pencil" for marking on roentgenographic and photographic emulsions, 554
new aiming instrument to make focusing easier in gynecological deep irradiation (abs), 719
new roentgenoscopic and roentgenographic grid (abs), 287
overhead aerial high tension system, 690
roentgen tube with internal radiation protection for 400 kv. operation voltage (abs), 577
simple radium detector, 689
valve tube for 400 kv. tension (abs), 577
wet-film viewing box, 398
Appendicitis, chronic, results and limitations of roentgen diagnosis (abs), 564
chronic, roentgen examination of inferior quadrant (abs), 564
chronic, solution of roentgen diagnostic problem in, 792
Appendix, pathological, 340
roentgen study of active movements of (abs), 118
roentgen visualization of (abs), 573
Arteritis, treatment by radiotherapy (abs), 431
obliterans, treated by roentgen therapy of suprarenal region (abs), 576
Arthritis, certain cases of, associated with parathyroidism (abs), 708
costovertebral (abs), 136
relation of intestinal tract and diet to treatment of (abs), 137
use of parathyroidectomy for (abs), 708
Ascaris, roentgen study of lungs of children with (abs), 412
Asthma, roentgen therapy of pancreas in treatment of (abs), 576
Astragalus, dislocation of (abs), 709

Backache, lumbosacral, and sciatic pain, oblique view for demonstration of articular facets in, 173
Basedow's disease: See Goiter, exophthalmic
Basophilism, pituitary (abs), 408
Bilharziasis, urinary, roentgen manifestations, and calculous formations in Egypt, and intravenous pyelography, 208
Bladder, closing mechanism of (abs), 120
diverticulum of (abs), 122
"Bleeding nipple," new method of treatment by radium implantation, 819
Blood, alterations in pH of, in cancer following roentgen and gamma irradiation, 532
changes in picture of, after deep roentgen irradiation, and their significance in prognosis (abs), 579

corpuscles, red, sedimentation reaction of, immediately before and after roentgen irradiation (abs), 281
diseases of, roentgen therapy (abs), 141
diseases of, severe, effect of very small and larger doses of roentgen rays in (abs), 276
disturbances in circulation of, radium irradiation of blood vessels in (abs), 277
vessels, radium irradiation of, in circulatory disturbances (abs), 277
Bone, and joint changes in hemophilia, 487
marrow, action of roentgen rays on (abs), 144
marrow, histological studies of, in rabbits following intravenous injection of thorium dioxide, 512
tuberculosis, two peculiar cases of (abs), 135
Bones, and ligaments, massive fluorosis of (abs), 125
changes in, in hemangiosarcoma of spleen (abs), 134
long, non-rachitic cupping of, in new-born (abs), 136
Book Reviews
The 1933 Year Book of Radiology. Edited by Charles A. Waters and Ira I. Kaplan, 100
Functional Disorders of the Large Intestine and their Treatment. By Jacob Buckstein, 100
Diagnostico de la Apendicitis cronica. By F. Gallart Monés and T. A. Pinós, 101
Precis d'eléctro-radiologie appliquée a l'odontostomatologie. By E. Pierron, 101
Human Cancer: Etiological factors; precancerous lesions; growth; spread; symptoms; diagnosis; prognosis; principles of treatment. By Arthur Purdy Stout, 263
Nasal Accessory Sinuses. By Frederick M. Law, 263
Grundlagen und Praxis der Röntgenstrahlendosierung: Dosismessung und Dosisfestsetzung. By H. Holthusen, 264
Radiodiagnostico en la Infancia. By Manual and Francisco Arce, 265
Manuel de radiodiagnostic clinique. Volumes I and II. By R. Ledoux-Lebard, 549
Compendio di radiologia medica (radiodiagnostica e radioterapie) ad uso degli studenti e dei medici pratici. By G. B. Cardinale and Mario Maino, 549
The Science of Radiology. Edited by Otto Glasser, 686
Trattato di Roentgen- e di Curie-terapia. Edited by Felice Perussia and Enzo Pugno-Vanoni, 686
Neurology. By Roy R. Grinker, 687
Borderline rays in ophthalmology (abs), 573
Bordier method in treatment of acute anterior poliomyelitis (abs), 575
Brain, meningeal fibroblastomas on under surface of temporal lobe and their surgical treatment (abs), 695
Breast, advanced cancer, radiotherapy and surgery (abs), 280
cancer, prophylactic irradiation (abs), 575
carcinoma, roentgen irradiation in treatment of, 46
new method for treatment of "bleeding nipple" by radium implantation, 819
Bronchi, inverse ratio in roentgen visualization of, after injection of contrast media, 323
Bronchography, an essential and safe adjunct in study of pulmonary tuberculosis, 301
in amplification of roentgen film of chronic pulmonary tuberculosis, 289
in relation to pathology of pulmonary tuberculosis, 308
Bronchopulmonary segment with special reference to putrid lung abscess, 328
Bronchus, primary carcinoma, diagnosis and treatment, 145

Calcification, extensive, roentgen evidence of, in osteitis fibrosa cystica, 593
in tuberculosis of suprarenal glands, roentgen study in Addison's disease (abs), 420
intracardiac (E), 678
intracardiac, roentgen diagnosis, 1
myocardial, 766
of suprarenal glands in Addison's disease (E), 93
pathological (abs), 429
subcutaneous, of phlebolithic or phlebosclerotic character in leg (abs), 138
Caldwell Lecture (1933), 145
Camera, focal spot, 399
Cancer, alterations of pH of blood in, following roentgen and gamma irradiation, 532
buccal, lingual and facial, treatment (abs), 574
effect of radium and bismuth on (abs), 283
of breast, advanced, radiotherapy and surgery in (abs), 280
of breast and uterus, osseous metastases from (abs), 566
of breast, prophylactic irradiation (abs), 575
of cervix, results of operation and irradiation (abs), 719
of female genitalia, methods and results of treatment (abs), 141
of mouth, management of, and cervical lymphatics, 366
operative and radiotherapeutic treatment (abs), 279
relation of radiation to genetics and mutation theory of cancer (E), 252
ulcers, red fluorescence in (abs), 282
Carcinoma, bronchiogenic, treatment (E), 544
genital, in women, acid-base balance (abs), 282
in chronic osteomyelitis, 787
incidence in certain chronic ulcerating lesions of stomach (abs), 419
mammary, roentgen irradiation in treatment, 46

of cervix and vagina, statistics of, for years 1923–1925 (abs), 142
of cervix, problems in radiation therapy of, 60
of cervix, treatment (abs), 281
of tonsils, review of 122 cases (abs), 717
of vulva, results of irradiation (abs), 142
ovarian, causing secondary infiltrating stenosis of sigmoid colon (abs), 421
primary, of bronchus or lung, diagnosis and treatment, 145
primary, of duodenum, 204
roentgen, cicatrized by radium (abs), 574
Cardiovascular disease, Paget's osteitis deformans in relation to (abs), 704
Carotid sinus, treatment of vascular hypertension by roentgen excitation of (abs), 578
Cecocolic sphincter, spasm of (abs), 700
Cecum, tumor of, simulating ileocecocolic invagination (abs), 116
Cells, living, action of radiations of short wave length on (abs), 286
Celluloid as support in application of radium (abs), 283
Cervical ribs, relation of congenital deformities of hand to (abs), 135
Chest, in children, cystic appearances (abs), 411
roentgen examination of, in lateral decubitus, 41
roentgenograms of, taken with breath held in expiration, 266
significance of "annular shadows" in roentgenograms of (abs), 410
triangular basal shadows in roentgenograms of (E), 838
Childhood, pulmonary tuberculosis, 16
Children, cystic appearances in chests of (abs), 411
disease of gallbladder in (abs), 558
examination of, whose mothers have been irradiated (abs), 713
intestinal stasis in (abs), 421
lungs of, with ascaris, roentgen study (abs), 412
roentgen findings in lead poisoning in (abs), 712
tarsal scaphoiditis in (abs), 427
tuberculous pulmonary infiltrations in (abs), 411
Chloroma, aleukemic, myelogenous (abs), 139
Cholecystitis, gangrenous gaseous, roentgen diagnosis (abs), 418
Cholecystography, applications of syncholia and synuria of certain iodized compounds (abs), 430
by oral route and its value (abs), 416
importance of, in diagnosis of gallbladder disease (abs), 115
in cases of impaired liver function (abs), 415
interpretation of (abs), 115
oral, 227
rapid (abs), 415
two new techniques—method of Sandström and of Antonucci (abs), 417
Coarctation of aorta (abs), 558
Colloid suspension, roentgen examination of large intestine by impregnation with thin layer of (abs), 118
Colon, antiperistalsis of (abs), 118
changes of form and position (abs), 565
ectopy of (abs), 565
normal and pathologic movements, roentgen observations (abs), 421
roentgen diagnosis of diseases of, 607
roentgen signs of diverticulosis and diverticulitis of (abs), 423
sigmoid, secondary infiltrating stenosis in ovarian carcinoma (abs), 421
studies on; variations in fixation of cecocolon, 751
treatment of megacolon by parathormone (abs), 421
wall changes and stenoses of, as result of extracolic disease (abs), 421
Coronary disease, roentgen diagnosis, 588
Cuneiform bone, internal, osteochondritis of (abs), 711
single, dislocation of (abs), 710
Cysts, intrathoracic, in children (abs), 411

Deossification, parathyroid, roentgen studies, 496
Dermatology, question of roentgen injury in (abs), 275
Diaphragm, adhesions and folds of (abs), 698
defects of, seen in roentgenogram (abs), 409
Diverticula, multiple, of jejunum and duodenum, 200
of pericardium (abs), 413
pointed, of fundus of stomach (abs), 700
Diverticulitis of colon, roentgen signs (abs), 423
Diverticulosis of colon, roentgen signs (abs), 423
Diverticulum of bladder (abs), 122
of epiglottic valleculae (abs), 409
of gallbladder, 603
Zenker's (abs), 409
Dosage, determination of, for long radium or radon needles, 74
variations in, dependent on wave length, 538
Dosimetry, chemical (abs), 578
Hammer ionometer and relation between R (Solomon) and r (international) unit (abs), 577
Duodenitis and its roentgenologic characteristics, 581
Duodenum, chronic intermittent obstruction of (abs), 419
multiple diverticula of, 200
primary carcinoma of, 204
stasis of, in icterus catarrhalis (abs), 561
typical variation in position of—duodenum inversum (abs), 699
Dwarfism, renal, and rickets (abs), 424
Dyschondroplasia foetalis (abs), 424
Dyshidrosis, new indirect roentgen method for treatment of (abs), 140
Dystrophy, cystic, sixteen observations (abs), 426

Echinococcus cyst attached to kidney, 541
Ectopy of colon (abs), 565
Eczema, new indirect roentgen method for treatment of (abs), 140
Editorials
Calcification of the suprarenal glands in Addison's disease, 93
Burton J. Lee, 95
Resolution of the New York Roentgen Society, 97
The relation of radiation to genetics and the mutation theory of cancer, 252
Radiologic service in the United States, 387
The treatment of bronchiogenic carcinoma, 544
Intracardiac calcification, 678
Stanley Melville, 680
Triangular basal shadows in roentgenograms of the chest, 838
Effect of radiations of different wave length on transplantable mouse sarcoma No. 180, 614
of radiations of short wave length on living cells (abs), 286
of radium with bismuth on cancer and growing tumors (abs), 283; (abs), 284
of roentgen irradiation on mineral metabolism (abs), 580
of roentgen rays on bone marrow (abs), 144
of very small and larger doses of roentgen rays in severe blood diseases (abs), 276
stimulant, of roentgen rays on normal tissue (abs), 580
Elbow, radial exostosis complicating anterior dislocation of (abs), 567
Electron emission, early history, 244
Emulsions, roentgenographic and photographic, "light-pencil" for marking on, 554
Encephalography, differential diagnosis by (abs), 696
improved method (abs), 696
under nitrous oxide anesthesia, 784
Enchondromas, calcified, roentgen appearance (abs), 709
Epituberculosis, 721
Epulis, treated with radium (abs), 573
Erysipelas, roentgen therapy of (abs), 277
Esophagus, pouches of (abs), 409
roentgen diagnosis of varices of (abs), 409
tertiary syphilis of, 773
Estrus as sign of beginning of ovulation after temporary roentgen sterilization (abs), 715
Exostosis, radial, complicating anterior dislocation of elbow (abs), 567
regression of, under roentgen irradiation (abs), 715

Femur, lesser trochanter of, some unusual changes in, 224
ununited intracapsular fractures of neck of, roentgenologically considered, 433
Fibroblastomas, meningeal, on under surface of temporal lobe and surgical treatment (abs), 695
Fibromas, nasopharyngeal, treatment by some physical agents (abs), 574
Fibromyoma of uterus, irradiation in treatment of, 51
Fingers, congenital stiffness (abs), 424
Fistula from duodenum into common duct (abs), 116
post-traumatic cerebrospinal fluid, demonstrated roentgenologically (abs), 408
spontaneous internal biliary, cases of (abs), 115
spontaneous internal biliary, roentgen demonstration, 31
Fluorescence, red, in cancer ulcers (abs), 282
Fluorosis, massive, of bones and ligaments (abs), 125
Foot, congenital fusion of bones of (abs), 570
"fork strain" of (abs), 428
Fracture of capitellum and trochlea, combined with fracture of external humeral condyle (abs), 709
of second metatarsal (abs), 428
transverse, of sacrum, 676
Fractures, marching, of metatarsal bones (abs), 712
intra-articular, of capitellum and trochlea of humerus (abs), 423
of inferior extremity of radius, reduction under the screen (abs), 423
of spine, results (abs), 425
old, action of radiotherapy of suprarenal region on constitution of osseous callus in (abs), 432
treatment of, by skeletal devices (abs), 423
ununited intracapsular, of femoral neck roentgenologically considered, 433

Gallbladder, disease of, in children (abs), 558
diverticulum of, 603
importance of cholecystography in diagnosis of disease of (abs), 115
roentgen tests of function of (abs), 699
studies of function of; study of alleged impediment in cystic duct to passage of fluids (abs), 698
Gallstones, roentgen appearance and chemical composition (abs), 699
Ganglioneuroma (abs), 565
Gangrene, diabetic, radiotherapy of suprarenal regions in (abs), 575
Gastroenterology, unification of opaque meal in (abs), 559
Gastrointestinal tract, changes of, during course of uremia (abs), 119
complete examination of, in roentgen practice (abs), 559
disturbance of, following left-sided phrenicoexairesis (abs), 119
relation of, and diet to treatment of arthritis (abs), 137

syphilitic stenoses in (abs), 118
Gastroscopic study of gastric ulcer (abs), 560
German Roentgenologists and Radiologists in Czechoslovakian Republic, report of 1933 meeting, 393
Goiter, exophthalmic, treatment of, by roentgen therapy of suprarenal region (abs), 576
exophthalmic, treatment of, with radium and results (abs), 716
Granulomatosis, malignant: See Hodgkin's disease
Granulopenia (abs), 428
Gynecological conditions, influence of, on genitourinary tract shown by simultaneous injections of skiodan or uroselectan and lipiodol (abs), 701
new aiming instrument to make focusing easier in deep irradiation in (abs), 719

Hand, congenital deformities, relation to cervical ribs (abs), 135
Heart, anteroposterior roentgen appearance of, as basis for estimating enlargement of particular cardiac region (abs), 698
congenital disease of, in infants, 470
differential diagnosis of shadows within cardiac silhouette (abs), 413
in funnel chest (abs), 414
intracardiac calcification (E), 678
position of right auricle and right ventricle in erect human subject (abs), 413
right aortic arch (abs), 414
roentgen diagnosis of intracardiac calcification, 1
roentgen findings in tricuspid disease (abs), 413
shadow of, densities in (abs), 698
study of, by roentgen kymography (abs), 697
tumors of (abs), 413
Hemangiosarcoma of spleen, changes in bones (abs), 134
Hemophilia, bone and joint changes in, 487
roentgen ray as aid in diagnosis of, 597
Hip joint, diagnosis of diseases of (abs), 135
History, early, of electron emission, 244
Hodgkin's disease, prognosis of, in connection with 80 cases (abs), 431
radiotherapy of (abs), 430
with cavity formation in the lung (abs), 410
Humerus, intra-articular fractures of capitellum and trochlea of (abs), 423
Hydronephrosis, retrograde ureteropyelography in (abs), 122
Hypercalcemia, acute (abs), 429
Hyperparathyroidism, a distinct disease entity (abs), 706
Hypertension, vascular, treatment by roentgen excitation of carotid sinus (abs), 578

Icterus catarrhalis, duodenal stasis in (abs), 561
Ileum, tumor of, causing recurrent invagination (abs), 116
Ilium, paraglenoid sulci of (abs), 569
Indiana Roentgen Society, 548
Infant, spontaneous pneumothorax in, 770
Infants, congenital cardiac disease in, 470
frame for holding infants upright during roentgenography, 396
Injury, roentgen, question of, in dermatology (abs), 275
Injuries caused by roentgen rays and radium, cases of (abs), 574
Institute of Radiology of Madras Government, 843
International Congress of Electroradiobiology, 548
International Congress of Radiology, Fourth, 260, 395, 844
rules and regulations, 260
Intervertebral disc, calcareous deposits in (abs), 703
normal and pathological physiology of nucleus pulposus of (abs), 568
Intestine, acute obstruction, roentgen diagnosis (abs), 117
large, roentgen examination of, by impregnation with thin layer of colloid suspension (abs), 118
large, surgical treatment of tuberculosis of (abs), 700
polyposis of (abs), 422
roentgen study of invagination of (abs), 117
small, roentgen diagnosis of invagination of (abs), 116
small, roentgen diagnosis of stenosis of (abs), 562
small, roentgen diagnosis of tumors of (abs), 420
small, roentgen study of last loop of (abs), 563
small, roentgen study of topographical and morphological changes in, on changing from erect to supine position (abs), 117
small, tuberculoma of (abs), 563
stasis of, in infants and children (abs), 421
Invagination, chronic ileocecocolic, simulated by tumor of cecum (abs), 116
intestinal roentgen, study (abs), 117
of small intestine, roentgen diagnosis (abs), 116
recurrent, from tumor of ileum (abs), 116
Iodized oils, in myelography, dangers, inconveniences and injuries (abs), 565
Irradiation, protracted, biological principles of (abs), 140
protracted fractional, of malignant tumors (abs), 144
roentgen, as nonspecific stimulant therapy (abs), 276
roentgen, pachymeningitis after? (abs), 275

Janeway Memorial Lecture (1933), 153
Jejunum, multiple diverticula, 200

Keloid, radiation therapy of, and keloidal scars, 238

Kidney, echinococcus cust attached to, 541
Kidneys, retrograde ureteropyelography in hydronephrosis (abs), 122
roentgen evidence of extensive calcification of, in osteitis fibrosa cystica, 593
scoliosis caused by disease of (abs), 120
Kymography, roentgen, study of heart by (abs), 697
Kyphosis of old age (abs), 427

Lantern slides, filing of, 110
Lead poisoning in children, roentgen findings (abs), 712
Lee, Burton J., obituary notice (E), 95
portrait, 95
resolution of New York Roentgen Ray Society, 97
Leg, subcutaneous calcifications of phlebolithic or phlebosclerotic character in leg (abs), 138
varicose disease, roentgen observations (abs), 138
Leucemia, case of, in radium worker (abs), 283
chronic, results of roentgen treatment (abs), 279
chronic myelogenous, treated by radiation (abs), 572
chronic myeloid, treatment (abs), 572
"Light-pencil" for marking on roentgenographic and photographic emulsions, 554
Lipoids, pneumonia due to aspiration of (abs), 412
Liver, cholecystography in cases of impaired function of (abs), 415
histological studies of, in rabbits following intravenous injection of thorium dioxide, 512
method of roentgen exploration of, in lithiasis and lithiatic icterus (abs), 418
retraction test of adrenalin (abs), 417
Lung, putrid abscess of, bronchopulmonary segment with special reference to, 328
Lungs, accessory lower lobe, roentgen appearance (abs), 697
acute massive collapse, 547
bone formation in (abs), 697
capillary lines of (abs), 558
cavity formation from Hodgkin's disease (abs), 410
historical review of question of roentgen demonstration of cavities caused by destruction of lungs in early tuberculosis (abs), 697
inverse ratio in roentgen visualization of bronchi and alveoli after injection of contrast media, 323
localized roentgen opacities in region of interlobar fissures of (abs), 412
of children with ascaris, roentgen study (abs), 412
posterior lobe (abs), 697
primary carcinoma, diagnosis and treatment, 145
specificity of consolidation of, in tuberculous patients, 721
syphilis of (abs), 410
syphilitic gumma of, 333
tuberculous infiltrations in, in childhood (abs), 411
Luxation, coxofemoral congenital, roentgen sign (abs), 427
Lymph nodes, roentgen study of (abs), 286
roentgen visualization in animals (abs), 139
Lymphatic system of thorax and diaphragm, roentgen study of absorption by, of thorium dioxide injected intrapleurally into animals, 166
roentgen study of (abs), 286
Lymphatics, cervical, management of cancer of, 366
Lymphogranulomatosis, malignant: See Hodgkin's disease

Mastoids, roentgen examination, 482
technical points in roentgenography of, 106
Mediastinum, tumor of, treated by radiotherapy (abs), 575
tumors of, roentgen diagnosis and differentiation, 458
Melville, Stanley, obituary notice (E), 680
portrait, 680
Menopause, surgical, sympathetic functional radiotherapy in (abs), 579
Mesenterium commune (abs), 421
anomaly, in connection with a case complicated by appendicitis (abs), 563
Metabolism, mineral, effect of roentgen irradiation on (abs), 580
Metastases, osseous, in cancer of breast and uterus (abs), 566
Metatarsal, second, fracture (abs), 428
bones, marching fractures of (abs), 712
bones, short, and their relation to poliomyelitis (abs), 710
Metatarsus varus, congenital (abs), 709
Michigan Association of Roentgenologists, 262
Minnesota Radiological Society, 547
Mouth, management of cancer of, and cervical lymphatics, 366
Muscles, skeletal, benign angiomatous tumors of (abs), 711
Myelography, with iodized oils, dangers, inconveniences and injuries (abs), 565
with small amounts of contrast medium (abs), 125
Myeloma, multiple, aleukemic and leukemic (abs), 139
multiple, of vertebral column (abs), 426
multiple, with blood picture of plasma cell leukemia (abs), 138
Myelosis, conversion of chronic into acute leukemic (abs), 571
Myocardium, calcification in, 766

Nasopharynx, fibromas, treatment by some physical agents (abs), 574
Neoplasms: See Tumors

Nephropyelography, its clinical value (abs), 122
results obtained with uroselectan and abrodil (abs), 123
Neuroblastoma, radiosensitive, 234
New-born, non-rachitic cupping of long bones in (abs), 136

Occult tail, case of (abs), 569
Olecranon, tuberculosis of (abs), 134
Ophthalmology, borderline rays in (abs), 573
Os acetabuli, 492
Ossification of soft parts of shoulder (abs), 567
roentgen observations on disturbances of, in borders of vertebrae (abs), 137
Osteitis deformans (Paget's) in relation to cardiovascular disease (abs), 705
deformans, roentgen signs (abs), 426
fibrosa, generalized, improved after removal of parathyroid tumor (abs), 425
fibrosa cystica, roentgen evidence of extensive, calcification of kidneys in, 593
tuberculosa multiplex cystica (Jüngling) (abs), 703
Osteochondritis of internal cuneiform (abs), 711
Osteogenesis imperfecta (abs), 566
imperfect congenital, identity of, and idiopathic osteopsathyrosis (abs), 136
Osteomyelitis, chronic, carcinoma in, 787
Osteophytosis, generalized, clinical, roentgen and histopathological findings in case of (abs), 703
Osteopsathyrosis, clinical and roentgen picture of (abs), 566
idiopathic, differentiation of infantile scurvy from (abs), 136
Osteopoikilosis, hereditary (abs), 426
Otto's pelvis, 346
Ovaries, comparative histology of, in relation to question of injury of germ plasm by roentgen rays (abs), 714
possibility and probability of injury to germ cell after irradiation of (abs), 715

Pachymeningitis after roentgen irradiation? (abs), 275
Paget's disease in patient with large calcified fibromyoma (abs), 134
Pancreas, roentgen therapy of, in treatment of asthma (abs), 576
Parathormone, treatment of megacolon with (abs), 421
Parathyroid glands, roentgen studies of deossification, 496
rôle of, in diseases associated with demineralization of human skeleton (abs), 704
tumor, case of generalized osteitis fibrosa improved after removal of (abs), 425
Parathyroidectomy, considerations on use of, for arthritis (abs), 708
Parathyroidism, certain arthritic disturbances associated with (abs), 708
in reference to orthopedic surgery (abs), 705
Parenchymatous organs, roentgen opacification of, by intravenous injection of thorotrast (abs), 285
Patella, roentgen symptomatology of (abs), 134
unusual anomaly of (abs), 570
Pellegrini-Stieda's disease (abs), 570
Peptic ulcer, chronic, of traumatic origin (abs), 560
gastroscopic study of (abs), 560
pathogenesis of perigastric abscess complicating (abs), 420
roentgen appearance of associated niches in ulcus ventriculi (abs), 560
roentgen diagnosis of postoperative jejunal ulcer and of gastrojejunocolic fistula confirmed by operation (abs), 562
ulcerus duodenal bulb (abs), 561
unrecognized, barium meal examination of stomach in presence of, 191
Pericardium, diverticula (abs), 413
Pharynx, highly malignant tumors of (abs), 719
pouches of (abs), 409
pouches of, diagnostic importance of filling (abs), 696
Phrenicoexairesis, left-sided, fluttering of abdominal viscera as a complication following (abs), 119
Physiology, gastric, mechanical factors of, 735, 745
Pituitary gland, basophil adenomas of (abs), 408
tumors, roentgen diagnosis (abs), 695
Placenta, roentgen visualization, 37
roentgenography (abs), 120
previa, roentgen diagnosis, 230
Pneumocephalus, traumatic (abs), 408
Pneumonia, due to aspiration of lipoids (abs), 412
experimental tuberculous, resolution of, 721
Pneumothorax, spontaneous bilateral (abs), 410
spontaneous, in an infant, 770
Poliomyelitis, acute anterior and the Bordier method (abs), 575
relation of short metatarsal bones to (abs), 710
Polyposis, intestinal (abs), 422
Polyps, gastric, and pernicious anemia syndrome (abs), 560
Prostate gland, benign hypertrophy, roentgen treatment, 350
roentgen exploration of (abs), 121
Protracted fractional method of irradiation: See Irradiation and Roentgen therapy
Pyelography: See also Nephropyelography, Ureteropyelography and Urography
application of syncholia and synuria of certain iodized compounds (abs), 430
ascending and descending, comparative morphological study of kidneys and ureters (abs), 124
excretion (abs), 124
intravenous, in kidney tuberculosis (abs), 125
intravenous, in urinary bilharziasis, 208

intravenous, with abrodil (abs), 123
Pyelo-ureteritis cystica, 778
Pyopneumocyst, roentgen diagnosis (abs), 418

Radiation, combination of roentgen and light (abs), 276
fractional administration of large amounts of, skin erythema course in (abs), 286
poisoning, chronic occupational (abs), 283
relation of, to genetics and mutation theory of cancer (E), 252
therapy, early experiences in, 153
Radiologic service in the United States (E), 387
Radiology, relation of American College of Radiology to future of, 164
Radium, celluloid as support in application of (abs), 283
needle carrier, 109
needles, long, determination of dosage for, 74
D, E and F, action of, with colloidal bismuth upon growing tumors (abs), 284
E, localization of, associated with bismuth after injection in cancerous animal (abs), 283
salts and emanation, 830
simple detector for, 689
Radius, fractures of inferior extremity of, reduction under screen (abs), 423
Radon, ingestion of, and its possible health dangers, 673
needles, long, determination of dosage for, 74
Reticulo-endothelial system, question of blockage of (abs), 282
Ribs, lumbar (abs), 567
Rickets, and renal dwarfism (abs), 424
Roentgen examination repeated after thirty years, 44
films, instrument for measuring density of, 550
ray absorption of tooth slabs, quantitative method for studying, 663
ray standards and units, 815
rays, comparative histology of ovaries in relation to question of injury of germ plasm by (abs), 714
rays, late injury by, and consequences for radiotherapy (abs), 713
therapy, data concerning three years' experience with 600 kv. (peak), 520
therapy, present status of, with voltages above 200 kv., 628
therapy, protracted fractional, of malignant tumors, results (abs), 143
tube with internal radiation protection for 400 kv. operation voltage (abs), 577
tubes, high voltage, comparison of, 378
Roentgenograms, box for viewing when wet, 398
how should they be viewed? (abs), 283
of chest taken with breath held in expiration, 266
of chest, triangular basal shadows in (E), 838
pulmonary, device for taking, under control of heart beat (abs), 143
Roentgenographic exposure, improved device for synchronizing, with patient's pulse, 104
Roentgenography, frame for holding infants upright during, 396
oblique view, for demonstration of articular facets in lumbosacral backache and sciatic pain, 173
Roentgenoscopy, value of method of adaptation of one eye (abs), 287

Sacrum, paraglenoid sulci of (abs), 569
transverse fracture of, 676
Sarcoma, osteogenic (abs), 126
primary, of vertebrae (abs), 126
transplantable mouse sarcoma No. 180, reaction of, to radiations of different wave length, 614
Scaphoiditis, tarsal, in young children (abs), 427
Scoliosis, nephrogenic (abs), 120
Scurvy, infantile, differentiation of, from idiopathic osteopsathyrosis (abs), 136
Sedimentation reaction of red blood corpuscles immediately before and after roentgen irradiation (abs), 281
Sella turcica, deformation of, in tumors of middle cranial fossa, 23
Shoulder, ossification of soft parts of (abs), 567
Sinus, sphenoidal, some experiments in projection of, through orbit (abs), 143
Sinuses, technical points in roentgenography of, 106
Skiodan: See Abrodil
Skull, deformation of sella turcica in tumors of middle cranial fossa, 23
occipital view, modified technique, 271
sutures of, interpretation of roentgen picture (abs), 558
Spasm of cecocolic sphincter (abs), 700
Spina bifida of atlas and axis (abs), 701
Spine, calcareous deposits in intervertebral discs (abs), 703
case of complete dislocation between fifth and sixth cervical vertebrae without fracture (abs), 701
cervical, form of spondylarthropathy of, with radicular disturbances (abs), 702
cervical, traumatic subluxation (abs), 567
changes in, following tetanus (abs), 703
costovertebral arthritis (abs), 136
fractures, results (abs), 425
horizontal thickening within vertebral bodies (abs), 568
multiple myeloma (abs), 426
normal and pathologic anatomy of contours of vertebral bodies (abs), 702
normal and pathological physiology of nucleus pulposus of intervertebral disc (abs), 568
oblique view for demonstration of the articular facets in lumbosacral backache and sciatic pain, 173
persistent apophyses of (abs), 702

roentgenography of, 273
spina bifida of atlas and axis (abs), 701
Spleen, hemangiosarcoma of, changes in bones (abs), 134
histological studies of, in rabbits following intravenous injection of thorium dioxide, 512
Spondylarthropathy of cervical spine with radicular disturbances (abs), 702
Standardization service of ionometers at St. Antoine Hospital (abs), 287
Stasis, intestinal, in infants and children (abs), 421
Stenosis, syphilitic, in digestive tract (abs), 118
Sterilization, temporary, by irradiation, and research in human heredity (abs), 712
temporary, from irradiation, disputed questions in regard to (abs), 712
temporary, problems of dosage in, by irradiation (abs), 714
temporary roentgen, clinical experience (abs), 714
temporary roentgen, estrus as sign of beginning of ovulation after (abs), 715
Sternum, bifide (abs), 567
Stomach, barium meal examination of, in presence of unrecognized perforated peptic ulcer, 191
benign tumors of (abs), 419
incidence of carcinoma in certain chronic ulcerating lesions of (abs), 419
intrathoracic congenital, in child aged seven (abs), 559
pointed diverticula of fundus of (abs), 700
polyps of, and pernicious anemia syndrome (abs), 560
some mechanical factors in physiology of, 735, 745
Subluxation, traumatic, of cervical spine (abs), 567
Sulci, paraglenoid, of ilium and sacrum (abs), 569
Suprarenal glands, action of radiotherapy in region of, on constitution of osseous callus in old fractures (abs), 432
arteritis obliterans treated by roentgen therapy of region of (abs), 576
calcification of, in Addison's disease (E), 93
calcification of, in tuberculosis of (abs), 420
radiotherapy of region of, in gangrene and diabetic pruritus (abs), 575
treatment of exophthalmic goiter by irradiation of region of (abs), 576
Sympathetic system, radiotherapy of, in pernicious vomiting (abs), 432
radiotherapy of, in surgical menopause (abs), 579
Syphilis of lung, 333; (abs), 410
stenoses from, in digestive tract (abs), 118
tertiary, of the esophagus, 773
Syringomyelia, roentgen treatment (abs), 141

Technique, hard rays and rapid exposure time in pulmonary teleroentgenography (abs), 144
occipital view, modified technique, 271
roentgen examination in the position "feet toward the ceiling" (abs), 283
roentgenography of spine, 273
some experiments in projection of sphenoidal sinus through orbit (abs), 143
use of chest roentgenograms taken with breath held in expiration, 266
Teleroentgenography, hard rays and rapid exposure in pulmonary teleroentgenography (abs), 144
pulmonary, Rotalix tube in (abs), 287
Tendinitis ossificans traumatica (abs), 570
Tendo patellae, roentgen consideration of its length (abs), 570
Tenebryl, new substance for intravenous urography (abs), 123
Teratoma testis, diagnosis and treatment, 356
Tetanus, changes in spine following (abs), 703
Thorax: See Chest
Thorium dioxide, biological observations on storage of—phagocytosis (abs), 282
histological studies of liver, spleen and bone marrow in rabbits following intravenous injection of, 512
roentgen study of absorption by lymphatics of thorax and diaphragm of thorium dioxide injected intrapleurally into animals, 166
Thorotrast, and infection (abs), 282
experimental researches on roentgen opacification of various parenchymatous organs by intravenous injection of (abs), 285
study of lymphatic circulation and lymph nodes by injection of (abs), 286
use in diagnosis of intra-abdominal tumors (abs), 119
Thyroid gland, malignant tumor, results of irradiation in two cases (abs), 278
Tissues, cultivation of, in plasma of animals that have been irradiated with roentgen rays (abs), 579
normal, stimulant action of roentgen rays on (abs), 580
Tongue, base of, highly malignant tumors of (abs), 719
Tonsils, carcinoma, review of 122 cases (abs), 177
diagnosis and treatment of malignant conditions of (abs), 718
Tooth slabs, quantitative method for studying roentgen-ray absorption of, 663
Trachea, displacement of, as roentgen sign of congenital cardiac disease in infants, 470
Tricuspid disease, roentgen findings (abs), 413
Trochanter, great, new method of determining presence of upward displacement of (abs), 569
lesser, of femur, unusual changes in, 224
Tuberculoma of small intestine (abs), 563
Tuberculosis, bone, two peculiar cases of (abs), 135
early, historical review of question of roentgen demonstration of cavities caused by de-

struction of lungs in (abs), 697
hematogenous (non-miliary) pulmonary, 442
of kidney, intravenous pyelography in (abs), 125
of large bowel, surgical treatment (abs), 700
of olecranon (abs), 134
of suprarenal glands, calcification in, roentgen study in Addison's disease (abs), 420
pulmonary, bronchography as an essential and safe adjunct in study of, 301
pulmonary, bronchography in relation to pathology of, 308
pulmonary, chronic, bronchography in amplification of roentgen film in, 289
pulmonary, in childhood, 16; (abs), 411
pulmonary, round foci type of, 319
Tumor, malignant, of thyroid, results of irradiation in two cases (abs), 278
mediastinal, treated by radiotherapy (abs), 575
of cecum simulating ileocecocolic invagination (abs), 116
of ileum causing recurrent invagination (abs), 116
Tumors, benign angiomatous, of skeletal muscles (abs), 711
benign, of stomach (abs), 419
cerebral, ameliorated by radiotherapy (abs), 572
growing, effect of radium and bismuth on (abs), 284
hypophyseal, roentgen diagnosis (abs), 695
intra-abdominal, use of thorotrast in diagnosis of (abs), 119
intracavitary, direct roentgen irradiation, 64
intracavitary, treatment, 394
lympho-epithelial (abs), 278
malignant, of pharynx and base of tongue (abs), 719
malignant, protracted fractional irradiation of (abs), 144
malignant, protracted fractional roentgen therapy of, results (abs), 143
malignant, relations between radiosensitiveness of, and mother tissue (abs), 716
mediastinal, roentgen diagnosis, and differentiation, 458
of embryonic structure—embryocytomas—and their radiosensitiveness (abs), 716
of heart (abs), 413
of middle cranial fossa, deformation of sella turcica in, 23
of small intestine, roentgen diagnosis (abs), 420
radiosensitive, of blood forming organs, urologic aspects (abs), 423

Ulcer, gastric, See Peptic ulcer
Umbrenal, use in pyelography (abs), 124
Uremia, digestive, errors of diagnosis in course of (abs), 119
Ureterocele, recognition of (abs), 423
Ureteropyelography, retrograde, in hydronephrosis (abs), 122
Urethra, female, studies of, especially as regards closing mechanism of bladder (abs), 120
male, roentgen exploration of, and of prostate (abs), 121
Urethrography in the male (abs), 121
Urinary apparatus, roentgen examination of, by means of excretion of contrast-giving substances (abs), 124
Urography, intravenous, by means of tenebryl (abs), 123
Uroselectan used in pyelography (abs), 123; (abs), 124; (abs), 125
Uterus, cervix and vagina, carcinoma, statistics of for years 1923–1925 (abs), 142
cervix, cancer, results of operation and irradiation (abs), 719
cervix, carcinoma, problems in radiation therapy of, 60
cervix, carcinoma, treatment (abs), 281
determination of position of portio and uterus in gynecological roentgen therapy (abs), 280
fibromyoma, irradiation in treatment, 51

Varicose disease of legs, roentgen observations (abs), 138
veins, "resting infection" in, diagnosis and treatment (abs), 428
Vertebrae, abscess of, unusual migration of (abs), 138
primary sarcoma of (abs), 126
roentgen observations on disturbances of ossification in borders of (abs), 137
Vomiting, pernicious, and sympathetic radiotherapy (abs), 432
Vulva, carcinoma, results of irradiation (abs), 142

Wave length, variations in dosage dependent on, 538

AUTHOR INDEX TO VOLUME XXXI

Adler, Karl, 580
Afifi, Mahmoud Ahmed, 208
Åkerlund, Åke, 420
Akerman, J., 425
Alajouanine, Th., 427
Albrecht, Hans, 714
Allen, M. Lowry, 470
Allen, William E., Jr., 676
Allison, R. G., 16
Altman, M., 415
Altschul, Walter, 277, 393
Ané, J. N., 139, 166
Antonucci, Cesar, 415
Arce, Francisco, 265
Arce, Manuel, 265
Arndt, Julian, 279
Arntzen, Leif, 116
Augier, Pierre, 422

Baastrup, Chr. I., 138
Ball, Ralph G., 420
Ballin, Max, 705
Barber, T. H. T., 138
Barker, Howard H., 673
Barney, J. D., 423
Barr, David P., 429
Barringer, Benjamin S., 350, 721
Bársony, T., 700
Bauer, Walter, 706
Bayer, Ludwig, 287
Bayley, Robert H., 414
Beau, H., 431
Becchini, Gastone, 118
Béclère, 120
Béclère, Henri, 283
Behnken, H., 815
Bendove, Raphael A., 323
Benhamou, Ed., 417
Bensaude, Raoul, 422
Bergk, K., 143
Betocchi, Giorgio, 558
Bianchini, Alessandro, 120, 124
Bidoli, Emilio, 136
Bieberbach, Walter D., 778
Bienvenue, A., 579
Bierdermann, Fritz, 700
Bigler, John A., 565
Bignami, G., 140
Bishop, Francis W., 663
Bishop, Paul A., 1
Blackford L. Minor, 414
Blomström, H., 415
Böhm, Alexander, 276
Bogart, Franklin B., 709
Borak, J., 715, 716
Bosch, Hans, 579
Bouslog, John S., 410
Bouton, E., 287
Bowen, David R., 547
Bradford, W. L., 571
Brancovici, M., 575
Braun, H., 280
Braun, R., 264
Brdiczka, I. G., 409, 560
Broders, Albert C., 719
Brooksher, W. R., Jr., 117, 122
Brown, C. E., 698
Brown, Samuel, 41
Bruck, Samuel, 319
Brumbaugh, Herbert L., 570
Brunet, 576
Buchman, Joseph, 711
Buckstein, Jacob, 100
Bucky, G., 282
Buisson, Mario, 559
Buisson, Paolo, 115, 122
Burlingame, R. M., 135
Burman, Michael S., 224
Burnam, Curtis F., 718
Burt, Edward F., 136
Buschbeck Herbert, 709
Butler, Carlos, 716

Calderón, Hector Ramirez, 566
Calo, A., 579
Camp, John D., 420
Capizzano, Nicolas, 573
Cappelli, Luigi, 283
Capua, Antonio, 563
Cardinale, G. B., 549
Carulla, Vincente, 578
Casati, Annibale, 144
Chantraine, H., 143
Chasin, Adib, 703
Chavany, 576
Chéne, Paul, 560
Chérigié, 576
Chievitz, Ole, 425
Childrey, John H., 719
Christiani, Edmund, 281
Christie, Arthur C., 389
Christopher, Frederick, 567
Clark, D. M., 541
Clark, Dwight F., 710
Codet, P. H., 567
Coliez, Robert, 573
Collins, J. J., 787
Compere, Edward L., 568, 704
Cone, Sydney M., 704
Cook, Philip H., 778
Cordonnier, V., 432
Correra, Tommaso, 566
Corrigan, K. E., 628
Costolow, William E., 520
Cottenot, 576
Cushing, Harvey, 408
Cutler, Max, 90, 720, 819

D'Aubigné, Merle, 423
D'Emidio, Angelo Santoro, 574
Dachtler, H. W., 394
Davenport, Tom F., 414
Davidoff, Leo M., 696
de Lorimier, Alfred A., 496
de Takats, G., 428
Dean, Archie L. Jr., 350
del Buono, Pietro, 134
del Guidice, Vincente, 578
Delaney, P. Arthur, 711
Delario, A. J., 177
Delherm, 576
Delherm, L., 431
Desaunay, A., 579
Desjardins, A. U., 255
Desplats, R., 432, 575
Determann, A., 413
di Bella Filippo, 126
Didiée, 570
Didiée, Jean, 134
Drevon, 427
Druckmann, Adolf, 715
Duffy, James J., 350, 717
Dufour, Pierre, 567
Dupas, C., 432
Dwyer, Hugh L., 424
Dyke, Cornelius G., 696
Dyroff, Rudolf, 714

Edeiken, Joseph, 414
Edling, Lars, 125
Ehrenburg, G. E., 119
v. Eiselberg, A., 408
Eliasz, Ernst, 699
Elzberg, Charles A., 695
Emery, Clyde K., 520
Enderle, C., 565
Engelstad, Rolf B., 118
Ettinger, Alice, 593
Eversbusch, G., 698
Ewing, James, 97, 153

Faber, Alexander, 709
Farrell, John T., Jr., 136
Feissly, R., 430
Feldman, Maurice, 227
Felsen, Joseph, 340
Ferguson, Albert B., 710
Ferguson, Russell S., 356
Fetzer, H., 119, 413
Finsen, V., 135
Fischgold, 567
Fleischner, Felix, 421

Flinn, Frederick B., 830
Freedman, Eugene, 333, 492
Freedman, John, 410
Friedman, Lewis J., 349
Fumarola, G., 565
Funsten, Robert V., 708
Funston, Robert V., 135

Galifi, Liborio, 116
Gallart Monés, F., 101
Gallavresi, Luigi, 117
Garcia-Calderon, J., 121
Gass, R. S., 412
Geipel, P., 701
Gejrot, W., 423
George, Arial W., 433
Gernez, L., 574
Gershwin, Benjamin S., 323
Gerstel, Gustav, 703
Geschickter, Charles F., 126
Geyman, M. J., 541
Ghormley, Ralph K., 173
Gianturco, Cesare, 735, 745
Gibert Queralto, J., 578
Giese, E., 141
Gilbert, R., 118, 418, 430
Ginsburg, Theodore M., 429
Giraudi, Gioffredo, 569
Glass, Ameil, 328
Glasser, Otto, 686
Gloor, W., 279
Goette, K., 702
Goia, Ioan, 431
Goldmark, Carl, 409
Goltz, Hilda Lee, 109
Goodale, Raymond H., 778
Gorjelik, R., 722
Gottlieb, Filip, 427
Gouin, J., 579
Gowen, G., 703
Graham, Evarts A., 145
Greene, Carl H., 420
Grinker, Roy R., 687
Grossmann, G., 576
Gudjonsson, Sk. V., 125
Guénaux, 559
Gunsett, A., 287, 577
Gutmann, René A., 561
Guttman, Paul H., 200
Györgyi, Géza, 696

Haenisch, F., 124
Haglund, Patrik, 428
Hakansson, Eric G., 421
Hampton, Aubrey O., 419
Hângănut, M., 561
Haring, Wilhelm, 560, 699
Hartung, Adolph, 410
Hatieganu, I., 561
Hauser, Harry, 234
v. Hayek, Heinrich, 567
Hayer, E., 722
Heald, Alfred H., 44
Healy, William P., 60
Heise, Agnete, 136
Held, A., 282
Hellmer, Hans, 137
Hellström, John, 423
Henny, George C., 550
Herendeen, Ralph E., 350
Hernaman-Johnson, F., 143
Heuser, Carlos, 120
Higley, Charles S., 333
Hillemand, Pierre, 422
Hillstrom, H. T., 412
Himler, L. E., 784
Hodge, Harold C., 663
Hodges, Fred M., 238
Hodges, Paul C., 399
Hoffmann, Carl, 278
Holmes, George W., 419
Holthusen, H., 140, 264
Holzmann, Max, 413
Hoppe, G., 119
Horsters, Hans, 699
Hoyne, Archibald, 565
Hudson, C. L., 31
Huet, J.-A., 119
Hunter, F. T., 423

Iaobovici, I., 426
Imboden, Harry M., 419
Impiombato, Gastone, 563
Ingvar, Sven, 125
Israelski, Martin, 564

Jacobaeus, H. C., 412
Jäderholm, K. Bruno, 413
Jannson, Gösta, 422
Jenkins, Hilger P., 711
Johannesson, Carl J., 394
Johnston, C. G., 698
Joly, Marcel, 286
Jones, Thomas E., 281
Junet, R., 284

Kadrnka, S., 118, 122, 284, 564
Kantor, John L., 751
Kaplan, Ira I., 100
Karelitz, Samuel, 424
Kato, Katsuji, 712
Kaye, G. W. C., 815
Keller, A. E., 412
v. Kémeri, D., 140
Kerley, Charles G., 421
Kern, Richard A., 421
Keyes, Donald C., 568
Kirklin, B. R., 173, 259, 581
Knittel, Gottlob, 421, 565
Koch, Lewis A., 571
Körbler, Juraj, 282
Kolomoyseff, H., 424
Koppenstein, E., 700
Kornblum, Karl, 23
Korol, Ephraim, 266
Kraft, Ernst, 712
Krasso, 573
v. Krenninger-Guggenberger, J., 715
Kröker, Peter, 563
Krumreich, Robert, 282
Kühne, Konrad, 703

Lacassagne, A., 283
Langeron, L., 432, 575
Lapidus, Paul W., 570
Laurell, Hugo, 116
Law, Frederick M., 263, 482
Lazeanu, E., 575
Lazeanu, G., 565
Le Page, 144
Ledbetter, L. H., 106
Leddy, E. T., 544
Ledoux-Lebard, R., 121, 283, 549
Legueu, Fey, 123
Leitner, Z., 282
Leonard, Ralph D., 433
Lepennetier, F., 415
Leucutia, T., 628
Levene, George, 398, 554, 588
Levin, Alfred G., 204
Levin, Isaac, 280
Levine, Samuel, 487
Liberson, F., 690
Liwschitz, S., 722
Lockwood, Bruce C., 419
Lönnerbald, Lars, 115
Lorey, A., 275
Loughery, Thomas P., 64
Lovisatti, Nicola, 118
Lowenburg, Harry, 429
Lupacciolu, Giovanni, 562
Luxenburger, Hans, 712
Lyon, Ernst, 426, 568

MacMillan, A. S., 409
McNaughton, Elizabeth, 138
Magendantz, Heinz, 593
Maino, Mario, 549
Major, S. G., 700
Mallet, Lucien, 574
Marchioni, 559
Marchioni, R., 417
Mardersteig, Klaus, 702
Markow, D. A., 722
Martin, Ann, 411
Mathieu, Pierre, 572
Matthews, Helen, 398, 554, 588
Maurer, E., 713
Mauric, G., 427

Mayer, Ernst G., 695
Medelman, J. P., 16
Meland, Orville M., 520
Menville, Leon J., 139, 166
Meyer, J., 577
Migliardi, Luigi, 125
Mintz, E. R., 423
Møller, P. Flemming, 125
Montgomery, Albert H., 558
Moore, John J., 496, 766
Moragues Gonzalez, P., 578
Moschetta, Giovanni, 117
Mouchet, Albert, 427
Moutier, François, 560
Mudd, Seeley G., 520
Müller, Walther, 577
Muller, Guli Lindh, 138
Muro, Felipe, 709
Murphy, J. E., 301
Mutscheller, A., 244
Muzii, Mario, 116

Nachlas, I. William, 708
Neeff, Th. C., 714
Nemenow, M., 716
Nemours-Auguste, 123, 287, 417
Neuhof, Harold, 289
New, Gordon B., 719
Nichols, B. H , 346
Nicotra, Antonino, 558
Niedner, Franz, 702
Nielsen, Jens, 283
Nürnberger, L., 713
Nyka, W., 283

O'Neill, D. B., 104
Ogilvie, Robertson, 572
Olsen, Hans C , 425
Orley, A., 138
Orr, H. Winnett, 423
Ossinskaja, W., 141

Pacini, Danilo, 134
Pape, R., 698
Paschetta, Vincent, 570
Peabody, Charles W., 709
Peirce, E. G., 137
Pellini, Maria, 115
Pemberton, Ralph, 137
Pendergrass, Eugene P., 470
Perussia, Felice, 686
Petetin, J., 121
Petrignani, Roger, 123
Pfahler, George E., 51, 458
Philipp, E . 142
Pierron, E., 101
Piersol, George M., 428
Pierson, John W , 412
Pigorini, Luigi, 563
Piney, A., 139, 571, 572
Pinner, Max, 442
Pinós, T. A., 101
Piot, Etienne, 562
Ployé, 567
Pohl, R., 421, 697
Pohle, Ernst A., 512
Ponzio, M., 276
Popp, L., 413, 563
Portmann, U. V., 46
Potter, B. P., 308
Powell, Clilian B., 37
Pugno-Vanoni, Enzo, 686

Quick, Douglas, 366
Quimby, Edith H., 74, 90, 91
Quint, H. A., 710

Rachlin, Nathan H., 569
Ramond, Felix, 560
Rankin, Fred W., 700
Rathcke, L., 703
Rawak, F., 696
Raynal, Albert, 574
Reed, Edward N., 701
Reed, Jewett V., 408
Reinhard, M. C., 538
Reisner, Alfred, 286
Reitter, George S., 770
Reynolds, Lawrence, 93, 678, 838
Reynolds, Russell J., 569
Riach, Jean S., 139, 572
Rieder, H., 697
Ritchie, Gorton, 512
Robertson, Robert C., 709
Rochlin, D. G., 424
Rodgers, Mortimer, 701
Roesler, Hugo, 1
Roffo, A. H., 574
Ronneaux, Georges, 575
Rosi, Peter A., 420
Rowntree, Leonard G., 420
Ryan, William T., 566
Rypins, Edwin L., 597

St. Jianu, 426
Salinger, Hans, 697
Samek, Julius, 275
Sandera, Robert, 699
Sandström, Carl, 415, 416
Sante, L. R., 91
Santoro, Mario, 134
Sarasin, R., 564
Saul, Walter, 698
Schaltenbrand, G., 275
Schechter, Samuel, 751
Schinz, Hans R., 279
Schloss, Wilhelm, 277
Schmidt, Ernst A., 200
Schmitt, Walter, 719
Scholz, Thomas, 409, 792
Schoonover, Janetta Wright, 532
Schreus, H., 723
Schröder, Robert, 141
Scott, Harry A., 266
Seifert, E., 580
Shapiro, Benjamin, 571
Shattuck, Howard F., 419
Sheldon, Luther, 421
Shiels, Ethol Hall, 532
Shiflett, E. L., 346
Sichel, D., 287
Sickels, T. N., 31
Simon, Joseph, 418
Simon, Stefan, 142
Simonson, S. G., 424
Singer, G., 378
Singer, Harry A., 191, 420
Sluys, F., 430
Smith, E. Gerard, 823
Snoke, Paul O., 570
Snow, William, 37
Soiland, Albert, 90, 164
Solis-Cohen, Leon, 487
Solomon, 287
Solomon, I., 815
Sowerbutts, Joseph, 410
Speder, E., 432
Spitz, Leonhard, 421
Stähler, Fritz, 719
Stecher, William R., 64
Stein, Arthur, 701
Steiner, Georg, 278
Steinfield, Edward, 428
Steinitz, E., 276
Stewart-Harrison, R., 724
Stoneburner, C. F., 378
Stoppani, F., 286, 428
Stout, Arthur Purdy, 263
Straus, Francis Howe, 712
Strouzer, V. S., 567
Stuhl, 576
Sugiura, Kanematsu, 614
Sutherland, Charles G., 110
Svab, Vaclav, 426
Swanson, Leonard A., 139
Swenson, Paul C., 204

Taft, Robert B., 689
Taylor, A. G. C., 284
Taylor, Lauriston S., 378, 815
Teneff, S., 286
Thibonneau, M., 572
Thompson, Charles F., 408
Thomsen, Einar, 120
Tixier, Léon, 575
Truchot, 123
Tschakert, J., 409

Ude, Walter H., 230
Unseld, E., 721

Unshelm, E., 411
Urner, J. A., 230

Van Alstyne, Guy S., 703
Van Huysen, Grant, 663
Van Leeuwen, W. S., 409
Van Pee, P., 575
Vasselle, 559
Vastine, Jacob H., 51, 603
Velde, G., 697
Viallet, 559

Waggoner, R. W., 784
Warren, S. Reid, Jr., 104
Warren, Stafford L., 663
Wasson, W. Walter, 410
Waters, Charles A., 100
Weber, Harry M., 607
Weltz, G. A., 409, 698
Westermark, Nils, 412
Weum, T. W., 230
Weyl, Charles, 104
Wheatley, Frank E., 398, 554, 588
Whipple, G. H., 571
Whitmore, W. H., 271, 273
Widmann, Bernard P., 532
Wilcox, Leslie F., 773
Wilke, Adolf, 697
Willis, Henry Stuart, 721
Wilson, May G., 558
Windholz, Franz, 426
Wintz, H., 712
Wohlers, H., 122
Wolf, Artur, 698
Wolferth, Charles C., 414
Wood, Horatio C., Jr., 396

Zangheri, Carlo, 138
Zimmer, Theodor, 577
Zimmern, 576
Zuppinger, A., 143
Zwerg, H. G., 144